CONTENTS OF VOLUME XXVIII

NUMBER 1, JANUARY, 1969

Presentation of Awards to Drs. I. Yakovlev, H. M. Zimmerman and A. Wolf. M. T. MOORE, Philadelphia, Pa. 1

Presidential Address. Mesenchymal Tissues of the Nervous System. The Indigenous Origin of Brain Macrophages in Hypoxic States and in Multiple Sclerosis. I. FEIGIN, M.D., New York, N. Y. 6

Chemical Pathology of G_{M1}-Gangliosidosis ("Generalized Gangliosidosis"). K. SUZUKI, M.D., K. SUZUKI, M.D., AND S. KAMOSHITA, M.D., New York, N. Y. 25

Neurofibrillary Spheroids Induced by Aluminum Phosphate in Dorsal Root Ganglia Neurons *in Vitro*. F. J. SEIL, CAPT. MC, USAR, P. W. LAMPERT, M.D., AND I. KLATZO, M.D., Washington, D. C. and Bethesda, Md. 74

Neuropathological Changes in Chediak-Higashi Disease. J. H. SUNG, M.D., J. P. MEYERS, M.D., E. M. STADLAN, M.D., D. COWEN, M.D., AND A. WOLF, M.D., Minneapolis, Minn. and New York, N. Y. 86

The Effects of Gamma Irradiation on the Postnatally Developing Canine Cerebellar Cortex. I. Effects of Single Sublethal Exposures. R. D. PHEMISTER, PH.D., D.V.M., J. N. SHIVELY, M.S., D.V.M., AND S. YOUNG, PH.D., M.R.C.V.S., Fort Collins, Colorado 119

The Effects of Gamma Irradiation on the Postnatally Developing Canine Cerebellar Cortex. II. Sequential Histogenesis of Radiation-Induced Changes. R. D. PHEMISTER, PH.D., D.V.M., J. N. SHIVELY, M.S., D.V.M., AND S. YOUNG, PH.D., M.R.C.V.S., Fort Collins, Colorado 128

The Fate of Escaped Plasma Protein After Thermal Necrosis of the Rat Brain: An Electron Microscope Study. W. F. BLAKEMORE, B.V.Sc., London, England 139

American Association of Neuropathologists, Annual Meeting, Washington, D. C. 153

Announcements 182

In Memoriam—DR. ERNA CHRISTENSEN 183

NUMBER 2, APRIL, 1969

Cytopathic Effects of Visna Virus in Cultured Mammalian Nervous Tissue. R. P. BUNGE, M.D., AND D. H. HARTER, M.D., New York, N. Y. 185

Tissue Culture Analysis of the Inherited Defect of Central Nervous System Myelination in Jimpy Mice. M. K. WOLF, M.D., AND A. B. HOLDEN, B.S., Boston, Mass. 195

An Electron Microscopic Study of Target Fibers and Related Abnormalities in Human Muscle. D. L. SCHOTLAND, M.D., Philadelphia, Pa. 214

Needle Biopsy of Skeletal Muscle: A Phase and Electron Microscopic Evaluation of its Usefulness in the Study of Muscle Disease. R. S. PORRO, M.D., H. DEF. WEBSTER, M.D., AND W. TOBIN, M.D., Miami, Florida 229

Absence of Cerebral Myelin Sheaths in a Case of Presumed Pelizaeus-Merzbacher. I. WATANABE, M.D., R. MCCAMAN, Ph.D., P. DYKEN, M.D., AND W. ZEMAN, M.D. Indianapolis, Ind. 243

Axonal Dystrophy in a Deer Mouse (Peromyscus Maniculatus) with an Inherited Ataxia and Tremor. J. VANDERMEER, M.S., AND E. BARTO, PH.D., Ann Arbor, Mich. 257

Enzyme Activities in Individual Motor Neurons in Amyotrophic Lateral Sclerosis of Guam. A Quantitative Histochemical Study. H. E. HIRSCH, PH.D., AND K. CHEN, M.D., Los Angeles, Calif. 267

Ultrastructural Study of Peripheral Nerve Biopsy in Refsum's Disease. M. FARDEAU, M.D., AND W. K. ENGEL, M.D., Bethesda, Maryland 278

The Arterial and Venous Blood Supplies to the Cerebellum of Primates. L. A. Gillilan, M.D., Lexington, Kentucky 295
The Distribution of Inhaled Mercury (Hg^{203}) Vapors in the Brain of Rats and Mice. G. B. Cassano, M.D., P. L. Viola, M.D., B. Ghetti, M.D., and L. Amaducci, M.D., Florence, Italy 308
Thyrotoxic Hypokalemic Periodic Paralysis. A Fine Structure Study. H. S. Schutta, M.D., and J. L. Armitage, M.D., Philadelphia, Pa. 321
Primary Bilateral Anophthalmia. C. Haberland, M.D., and M. Perou, M.D., Chicago, Ill. 337
Book Review 352

Number 3, July, 1969

Experimental Kuru Encephalopathy in Chimpanzees and Spider Monkeys. P. W. Lampert, M.D., K. M. Earle, M.D., C. J. Gibbs, Jr., Ph.D., and D. C. Gajdusek, M.D., Washington, D. C. and Bethesda, Md. 353
Virus-Like Particles in Murine Ependymoblastoma. R. Rubin, M.D., R. P. Ames, M.D., C. H. Sulton, M.D., and H. M. Zimmerman, M.D., New York, N. Y. 371
The Fine Structure of the Cerebella of Jimpy Mice and Their "Normal" Litter Mates. A. Hirano, M.D., D. S. Sax, M.D., and H. M. Zimmerman, M.D., Bronx, N. Y. 388
Experimental Lead Neuropathy: A Disease of the Supporting Cells in the Peripheral Nervous System. W. W. Schlaepfer, M.D., St. Louis, Missouri 401
The Histochemical Relationship of Neuromelanin and Lipofuscin. H. Barden, Ph.D., New York, N. Y. 419
Cerebral Medulloepithelioma with Maturation Into Ependymal Cells and Ganglion Cells. H. N. Deck, M.D., Palo Alto, Calif. 442
Glutamate-Induced Retinal Degeneration in Neonatal Mice. Electron Microscopy of the Acutely Evolving Lesion. J. W. Olney, M.D., St. Louis, Missouri 445
Electron Microscopy of Human Tumors Secreting Catecholamines; Correlation with Biochemical Data. R. Greenberg, Ph.D., I. Rosenthal, M.D., and G. S. Falk, B.S., Chicago, Ill. 475
Progressive Multifocal Leukoencephalopathy (PML). I. Investigation of the Immunologic Status of a Patient with Lymphosarcoma and PML. G. W. Ellison, M.D., New Haven, Conn. 501
The Distribution of Peroxidase in the Triethyltin-Intoxicated Rat Brain. A. Hirano, M.D., H. M. Dembitzer, Ph.D., N. H. Becker, M.D., and H. M. Zimmerman, M.D., Bronx, N. Y. 507
Book Review 512

Number 4, October, 1969

Glial Footplates in the Bowfin. I. Fine Structure and Chemistry. R. L. Friede, M.D., K. H. Hu, Ph.D., and M. Johnstone, M.T.(ASCP) Cleveland, Ohio 513
Glial Footplates in the Bowfin. II. Effects of Ouabain and Selective Damage to Footplates on Electrolyte Composition, Glycogen Content, Fine Structure, and Electrophysiology of Bowfin Brain Incubated *in vitro*. R. L. Friede, M.D., K. H. Hu, Ph.D., and R. Cechner, Ph.D., Cleveland, Ohio 540
The Pathogenesis of Dying-Back Polyneuropathies. Part I. An Ultrastructural Study of Experimental Tri-Ortho-Cresyl Phosphate Intoxication in the Cat. J. Prineas, M.B.(Syd.), M.R.C.P., Bronx, N.Y. 571
The Pathogenesis of Dying-Back Polyneuropathies. Part II. An Ultrastructural Study of Experimental Acrylamide Intoxication in the Cat. J. Prineas, M.B. (Syd.), M.R.C.P., Bronx, N.Y. 598
Lhermitte-Duclos Disease (Granule Cell Hypertrophy of the Cerebellum) Pathological

Analysis of the First Familial Cases. M. Ambler, M.D., Providence, R. I., S. Pogacar, M.D., Howard, R. I., and R. Sidman, M.D., Boston, Mass. 622
Brain Tumors Induced in Dogs by the Schmidt-Ruppin Strain of Rous Sarcoma Virus. Neuropathological and Immunological Observations. D. D. Bigner, M.D., G. L. Odom, M.D., M. S. Mahaley, Jr., M.D., and E. D. Day, Ph.D., Durham, N. C. 648
Index to Volume XXVIII 681